

CLAIMS

1. A container wheel control mechanism, comprising:

a container handle, mechanically coupled to a container, configured to expand and compress;

a container wheel mechanically coupled to the container handle and responsive to movement of the container handle, configured to extend from the surface of the container when the container handle is expanded and to retract from the surface of the container when the container handle is compressed.

2. The control mechanism of claim 1, wherein number of container wheels is two, including a first container wheel and a second container wheel, and wherein the container handle comprises a first telescoping handle shaft and a second telescoping handle shaft.

3. The control mechanism of claim 2, wherein the first telescoping handle shaft controls the extension and retraction of the first container wheel and the second telescoping handle shaft controls the extension and retraction of the second container wheel.

4. The control mechanism of claim 2, wherein the first telescoping handle shaft is comprised of a first inner handle shaft and a first outer handle shaft, wherein the first inner handle shaft is configured to slide through the first outer handle shaft; and wherein the second telescoping handle shaft is comprised of a second inner handle shaft and a second outer handle shaft, wherein the second inner handle shaft is configured to slide through the second outer handle shaft.

5. The control mechanism of claim 4, wherein the first inner handle shaft and the first outer handle shaft and the second inner handle shaft and the second outer handle shaft are not pipes.

6. The control mechanism of claim 1, further comprising:

a wheel housing to house the container wheel, the container wheel being fixed about an axle of the wheel housing; and

a slide slidably coupled to the wheel housing and to the container handle to control movement of the container wheel, wherein, when the container handle is compressed, sliding contact of the container handle against the slide causes the wheel housing and the wheel to retract into the container recess; and wherein, when the container handle is expanded, sliding contact of the wheel housing against the slide causes the wheel housing and the wheel to extend from the container recess.

7. The control mechanism of claim 6, wherein the wheel housing has a convex wheel housing contact member and a horizontal peak area at top of wheel housing; and wherein the convex wheel housing contact member couples to a notch at bottom of the slide when the container wheel is retracted and wherein the horizontal peak area of the wheel housing couples with a horizontal area at the bottom of the slide when the container wheel is extended.

8. The control mechanism of claim 7, further comprising a wheel spring coupled to the slide and the wheel housing to move the wheel housing into the slide notch by tension force to retract the container wheel.

9. The control mechanism of claim 6, wherein top of slide has a top incline surface to slidably couple with the container handle, wherein when the container handle is compressed, bottom end of the container handle slidably couples with the top incline surface of the slide to cause the container wheel to retract.

10. The control mechanism of claim 9, further comprising a slide spring coupled to the slide and the container to push the top incline surface of the slide into contact with the bottom end of the container handle.

11. A method for controlling a container wheel, comprising:
retracting the container wheel in response to compression of a container handle; and
extending the container wheel in response to expansion of the container handle.
12. The method of claim 11, wherein the compression of the container handle further comprises moving the handle in a trajectory that is perpendicular towards a bottom surface of the container.
13. The method of claim 11, wherein the expansion of the container handle further comprises moving the handle in a trajectory that is perpendicular away from the bottom surface of the container.